

**IN THE CLAIMS**

Please cancel claims 2 and 12 without prejudice or disclaimer of their subject matter, and amend claims 1, 4, 6-11, and 13-19, as follows:

1           1. (Currently Amended) A method comprising:  
2           receiving user authentication information from a mobile terminal via a wireless  
3           communication network to purchase a betting ticket for a race, performing user  
4           authentication using the received user authentication information, and transmitting  
5           information on results of the user authentication to the mobile terminal via the wireless  
6           communication network;  
7           receiving ticket purchase information from the mobile terminal after completion of  
8           the user authentication and selling the betting ticket through communication with a  
9           corresponding race management system according to the ticket purchase information;  
10          storing ticket sale information and creating a Short Message Service (SMS)  
11          message indicating the ticket sale information after selling the betting ticket; and  
12          transmitting the SMS message indicating the ticket sale information to the mobile  
13          terminal via the wireless communication network.

Claim 2. (Canceled)

1           3. (Original) The method according to claim 1, wherein the mobile terminal is  
2           one of a Personal Data Assistant (PDA), a Personal Communication Service (PCS)  
3           terminal, a Digital Cellular Service (DCS) terminal, a smart phone or an International  
4           Mobile Telecommunication (IMT)-2000 terminal.

1           4. (Currently Amended) The method according to claim 1, wherein ~~the creating of~~  
2           the SMS message indicating the ticket sale information is ~~performed through one of~~

3 ~~private and public~~ created by a wireless switching systems system.

1           5. (Original) The method according to claim 1, wherein the user authentication  
2 information includes at least one of an IDentification (ID) and a password, allocated at a  
3 time of registering for a wireless ticket purchase service, and a bank account number,  
4 registered for the wireless ticket purchase service.

1           6. (Currently Amended) The method according to claim 1, wherein the ticket  
2 purchase information includes at least one of regional information, race number  
3 information, winner determination information, [[horse]] race contestant number  
4 information and betting amount information.

1           7. (Currently Amended) A method comprising:  
2 receiving user authentication information from a mobile terminal via a ~~private~~  
3 wireless communication network to purchase a betting ticket for a race, performing the  
4 received user authentication using the received user authentication information, and  
5 transmitting information on results of the user authentication to the mobile terminal via  
6 the ~~private~~ wireless communication network;

7 receiving ticket purchase information from the mobile terminal via the ~~private~~  
8 wireless communication network after completion of the user authentication and selling  
9 the betting ticket through communication with a corresponding race management system  
10 according to the ticket purchase information;

11 storing ticket sale information and transmitting a request for creation of a SMS  
12 message indicating ticket sale information to a ~~private~~ wireless switch after selling the  
13 betting ticket; and

14 creating the SMS message indicating the ticket sale information in the ~~private~~  
15 wireless switch in response to the request for the creation of the SMS message indicating

16 ticket sale information, and transmitting the SMS message indicating the ticket sale  
17 information to the mobile terminal via the ~~private~~ wireless communication network.

1 8. (Currently Amended) A method comprising:

2 receiving user authentication information from a mobile terminal via a ~~public~~  
3 wireless communication network to purchase a betting ticket for a race, performing user  
4 authentication using the received authentication information, and transmitting  
5 information on results of the user authentication to the mobile terminal via the ~~public~~  
6 wireless communication network;

7 receiving ticket purchase information from the mobile terminal via the ~~public~~  
8 wireless communication network after completion of the user authentication and selling  
9 the betting ticket through communication with a corresponding race management system  
10 according to the ticket purchase information;

11 storing ticket sale information and transmitting a request for creation of an SMS  
12 message indicating the ticket sale information to a ~~public~~ wireless switch after the betting  
13 ticket is sold; and

14 creating the SMS message indicating the ticket sale information in the ~~public~~  
15 wireless switch and transmitting the SMS message to the mobile terminal via the ~~public~~  
16 wireless communication network in response to the request for the creation of the SMS  
17 message indicating the ticket sale information.

1 9. (Currently Amended) A method comprising:

2 running a ticket purchase application program adapted to display a user  
3 authentication screen;

4 transmitting [[this]] user authentication information to a betting ticket purchase  
5 system via a mobile communication system after a user enters the user authentication  
6 information in the user authentication screen;

7 receiving results ~~[[of]]~~ in response to the user authentication from the betting  
8 ticket purchase system, and displaying all ~~of the optional items~~ item choices for a ticket  
9 purchase for a race on a single screen when the user authentication succeeds;

10 transmitting set ticket purchase information to the mobile communication system  
11 after ~~[[a]]~~ the user has ~~set all of~~ selected some of the ~~optional items~~ item choices  
12 displayed on the single screen; and

13 receiving and sequentially displaying an SMS message indicating ticket sale  
14 information according to the ticket purchase information and a SMS message indicating  
15 winning information according to results of ~~[[a]]~~ the race from the betting ticket purchase  
16 system.

1 10. (Currently Amended) A method comprising:

2 running a ticket purchase application program in mobile terminal to transmit user  
3 authentication information to an Automatic Response System (ARS) sale server through a  
4 wireless network system;

5 receiving and authenticating the user authentication information in the ARS sale  
6 server and transmitting the results of the user authentication information to the mobile  
7 terminal through the wireless network system;

8 displaying ~~all optional items~~ item choices on a single screen of the mobile terminal  
9 after the user authentication information has been completed, and transmitting set ticket  
10 purchase information to a ticket sale processing system through the wireless network  
11 system and the ARS sale server after the user has ~~set all of~~ selected some of the ~~optional~~  
12 ~~items~~ item choices;

13 selling a betting ticket in the ticket sale processing system according to the ticket  
14 purchase information and transmitting ticket sale information to the ARS sale server after  
15 ticket purchase information has been received from the mobile ~~communication~~ terminal  
16 via ~~a public~~ the wireless network system;

17 storing the ticket sale information in the ARS sale server and transmitting a  
18 request for creation of a SMS message indicating the ticket sale information to the  
19 wireless network system after receiving the ticket sale information; and  
20 creating and transmitting the SMS message from the wireless network system to  
21 the mobile terminal indicating the ticket sale information in response to the request for  
22 the creation of the SMS message indicating the ticket sale information.

1 11. (Currently Amended) A system comprising:  
2 an Automatic Response System (ARS) ticket sales server adapted to transmit a  
3 request for a ticket purchase according to ticket purchase information to a betting ticket  
4 sale system in response to receiving the ticket purchase information through a mobile  
5 terminal, and to transmit a request to create an SMS message indicating ticket sale  
6 information in response to the ticket sale information received from the betting ticket  
7 ~~[[sale]]~~ sales system; and  
8 a wireless data transmission and reception network adapted to provide the ticket  
9 purchase information, transmitted from the mobile terminal via the wireless data  
10 transmission and reception network, to the betting ticket sales server, to create an SMS  
11 message indicating the ticket sale information in response to a request for creation of the  
12 SMS message indicating the ticket sale information, and to transmit the SMS message to  
13 the mobile terminal via the wireless data transmission and reception network.

Claim 12. (Canceled)

1 13. (Currently Amended) The system according to claim 11, wherein the wireless  
2 data transmission and reception network ~~is one of private and public wireless switching~~  
3 ~~systems, each including~~ includes an SMS message creation unit.

1           14. (Currently Amended) The system according to claim 11, wherein the ticket  
2 sales server comprises:

3           a wireless network-interworking Application Programming Interface (API)  
4 adapted to change received and transmitted data formats;

5           an authentication unit adapted to perform user authentication for a ticket purchase;  
6 and

7           a storage unit adapted to store the ticket purchase information and the ticket sale  
8 information transmitted from the betting ticket sale system.

1           15. (Currently Amended) A system comprising:

2           a wireless network-interworking Application Programming Interface (API),  
3 included with an Automatic Response System (ARS) server of an ARS system, and  
4 adapted to convert ticket purchase information into converted ticket purchase data having  
5 a format appropriate to the ARS server in response to the ticket purchase information  
6 received from a mobile terminal, to transmit a request for a ticket purchase corresponding  
7 to the converted ticket purchase data to a ticket sale processing system, and to transmit a  
8 request for creation of [[a]] an SMS message indicating ticket sale information in  
9 response to receiving the ticket sale information from the ticket sale processing system;  
10 and

11           a wireless data transmission and reception network adapted to provide the ticket  
12 purchase information, transmitted from the mobile terminal via the wireless data  
13 transmission and reception network, to the wireless network-interworking API, and to  
14 create an SMS message indicating the ticket sale information in response to a request for  
15 the creation of the SMS message transmitted from the wireless network-interworking  
16 API, and to transmit the SMS message to the mobile terminal via the wireless network.

1           16. (Currently Amended) The system according to claim 15, wherein the ARS

server comprises:

an authentication unit adapted to perform user authentication; and  
a storage unit adapted to store the ticket purchase information and the ticket sale information transmitted from the ~~betting~~ ticket sale processing system.

17. (Currently Amended) A mobile terminal comprising:

a ticket purchase application program module adapted to display a user authentication screen in response to running a ticket purchase application program and adapted to display a ticket purchase screen, including ~~all optional items~~ item choices to enable a user to ~~set all of the optional information~~ choose item choices for a ticket purchase, in response to a completion of a user authentication; and

a wireless data transmission and reception module adapted to transmit user authentication information and ticket purchase information to a betting ticket sale system, and to receive an SMS message indicating ticket sale information and ~~[[a]]~~ an SMS message indicating winning information from the betting ticket sale system via a wireless communication network.

18. (Currently Amended) The mobile terminal according to claim 17, wherein the ticket purchase screen displayed by the ticket purchase application program includes at least one of a regional option field, a race number option field, a winner determination option field, a ~~[[horse]]~~ race contestant number option field and a betting amount option field.

19. (Currently Amended) The mobile terminal according to in claim 18, further comprising:

an additional betting button adapted to enable the user to additionally purchase a betting ticket after ~~all of the~~ at least one optional ~~items have~~ field has been set on the

5 ticket purchase screen displayed by the ticket purchase application program; and  
6 a temporary data storage unit adapted to temporarily store previously set ticket  
7 purchase information in response to the additional betting button being pushed and  
8 additional ticket purchase information being set.